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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/035,224	01/04/2002	Ryuji Uesugi	SHG-0201	3453
7	590 11/18/2005		EXAM	INER
David T. Nika		NILAND, PATRICK DENNIS		
Suite 501	MAN & GRAUER, PL	ART UNIT	PAPER NUMBER	
1233 20th Stree		1714		
Washington, DC 20036			DATE MAILED: 11/18/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.   Application No.   Applicant(e)   USUGE TAL.							
## Disposition of Claims  ## Art Unit Practice D. Niland   1714    ## The MAILING DATE of this communication appears on the cover sheet with the correspondence address  **Period for Reply**  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  ## SIX (e) MONTHS from the mailing date of this communication.  ## FIX operation for the just sported above, the maximum statistory period will appear will expire \$X\$ (ii) MONTHS from the mailing date of this communication.  ## FIX operation for the process of the process of the mailing date of this communication.  ## FIX operation for the mailing date operation.  ## FIX operation for the date of the fix operation for the fix operation.  ## FIX operation for the mailing date operation.  ## FIX operation for the	Office Action Summary		Application No.	Applicant(s)			
Patrick D. Niland   1714   171			10/035,224	UESUGI ET AL.			
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  **after SX (6) MONTHS* from the realing date of this communication.  **IN Depends for emply septimish down, the maximum studyor period will apply and will expire XX (6) MONTHS* from the realing date of this communication.  **Follows to reply willish the store standed princip for reply will, by statute, cause the splitcation to become ARANDONED (33 U.S. 2 \$133).  **Follows to reply willish the store standed princip for reply will, by statute, cause the splitcation is X6 (MONTHS* from the realing date of this communication.  **Follows to reply willish the store standed princip for reply will, by statute, cause the splitcation is X6 (MONTHS* from the realing date of this communication.  **Follows to reply willish the store standed princip for reply will, by statute, cause the splitcation is X6 (MONTHS* from the realing date of this communication.  **Follows to communication(s) filed on 26 August 2005.**  **Status**  1)							
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Edenmins of time may be waited burder the provides of 37 CPR 1-18(s), in the cent hybert, may a reply be limely filled after 50 (s) MoChT IS from the mailing date of this communication.  Fallius to prove within the stor canding date of this communication is possible to the communication of the com		IG DATE of this communication app	ears on the cover sheet with the	correspondence address			
1)⊠ Responsive to communication(s) filed on 26 August 2005.  2a)⊠ This action is FINAL. 2b)□ This action is non-final.  3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)☑ Claim(s) 1.2.5 and 7-15 is/are pending in the application.  4a) Of the above claim(s) 7-14 is/are withdrawn from consideration.  5)□ Claim(s) 1.2.5 and 15 is/are pending in the application.  4a) Of the above claim(s) 7-14 is/are withdrawn from consideration.  5)□ Claim(s) 1.2.5 and 15 is/are rejected.  7)□ Claim(s) 1.2.5 and 15 is/are objected to.  80□ Claim(s) 1.2.5 and 15 is/are rejected.  7)□ Claim(s) 1.2.5 and 15 is/are rejected.  7)□ The specification is objected to by the Examiner.  Application Papers  9)□ The specification is objected to by the Examiner.  10)□ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. Sea 37 CFR 1.121(d).  11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)□ All b)□ Some * c)□ None of:  1.□ Certified copies of the priority documents have been received in Application No.  3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1)□ Notice of Paterperson's Patent Drawing Review (PTO-948)  3)□ Information Disclosure Statement(s) (PTO-1439 er PTO/SB/08)  8)□ Information Disclosure Statement(s) (PTO-1449	WHICHEVER IS L  - Extensions of time may after SIX (6) MONTHS  - If NO period for reply is  - Failure to reply within the Any reply received by the	ONGER, FROM THE MAILING DA be available under the provisions of 37 CFR 1.13 from the mailing date of this communication. specified above, the maximum statutory period we he set or extended period for reply will, by statute, the Office later than three months after the mailing	ATE OF THIS COMMUNICATION  36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).			
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1. The amendment of 8/26/05 has been entered. Claims 1-2, 5, and 7-15 are pending with claims 7-14 having been withdrawn from consideration as being directed to a non-elected invention.

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- 2. Claims 1, 2, 5, and 15 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.
- A. The newly added recitation of "veratrole" was not present in the originally filed specification. There is not adequate evidence that the change from peratrole to veratrole was simply a typo. The v and p are in very different locations on the qwerty keyboard. There is no evidence that the applicant possessed the invention using "veratrole" at the time of the instant invention.
- 3. The amendment filed 8/26/05 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows:
- A. The newly added recitation of "veratrole" was not present in the originally filed specification. There is not adequate evidence that the change from peratrole to veratrole was simply a typo. The v and p are in very different locations on the querty keyboard. There is no evidence that the applicant possessed the invention using "veratrole" at the time of the instant invention.

Applicant is required to cancel the new matter in the reply to this Office Action.

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-2, 5, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 722179 A2 Wang et al. in view of US Pat. No. 5965645 Beck et al. and US Pat. No. 4550982 Hirai.

Wang discloses the instantly claimed compositions at page 2, lines 55-57; page 3, lines 1-12; page 6, lines 45-58, of which the ether plasticizers fall within the scope of the instantly claimed high boiling solvents and the plasticizer of the instant claim 2, page 7, lines 1-25; page 9, lines 5-55, of which the amounts encompass those of the instant claims when considered with the broader amounts recited in the prior disclosure of Wang; and the remainder of the document.

It would have been obvious to one of ordinary skill in the art at the time of the instant invention to use the instantly claimed combinations of ingredients and amounts thereof in the composition of Wang because they are encompassed by Wang and would have been expected to give the properties disclosed by Wang. It would have been obvious to one of ordinary skill in the art at the time of the instant invention to use diphenyl ether of column 6, lines 22-32 of Beck et al. and column 9, lines 1-5 of Hirai, these pasticizers are shown to plasticize polymers encompassed by Wang et al., and page 6, lines 46-51 of Wang encompasses this known plasticizer. No unexpected results are seen stemming from the differences between the Wang reference and the instant claims in a manner commensurate in scope with the Wang disclosure

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and the instant claims. The applicant argues that the art does not suggest the instantly claimed features. While the art does not specifically mention the instantly claimed boiling points and the instantly claimed required difference between the boiling points of the two solvents, compositions having these properties are encompassed by the patentee. As shown by the applicant, many of the solvents of the reference have the instantly claimed lower boiling points. The plasticizers of the reference are necessarily solvents for the binder by definition of "plasticizer". Furthermore, plasticizers are relatively non-volatile, i.e. of high boiling point. Many of the disclosed plasticizers would appear to have the instantly claimed higher boiling points based on the applicant's examples of such compounds. The amount of picking and choosing of the components and amounts thereof of the reference required to achieve the instantly claimed invention is small. Thus, a prima facie case of obviousness exists for the reasons stated above.

The applicant's arguments regarding motivation are not persuasive. Wang teaches the use of "plasticizers" generically in their green tapes. Plasticizers by definition lower the Tg of the polymer, e.g. soften it. See page 6 of Wang, lines 45-51. The list recited by Wang is denoted by "include", showing that the list is not exhaustive. Thus there is no teaching away from using the secondary reference plasticizers in Wang's composition nor suggestion that the secondary reference plasticizers will make Wang's composition unsuitable for its intended use as plasticization is specifically desired. The applicant has not shown that the above discussed plasticizers of the secondary reference would be expected to make the green tape of Wang too soft in a manner commensurate in scope with the instant claims and the cited prior art. It is particularly noted that Wang discusses controlling the amount of plasticizer in the composition

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by adjusting its amount (page 7, lines 5-15 of Wang). The skilled artisan knows clearly that the amount of plasticization is proportional to the amount of plasticizer and can adjust that amount to the desired degrees of plasticization. Applicant's arguments regarding the allegation of a lack of suggestion or motivation to combine the above references ignores the desire of Wang to plasticize their compositions and Wang's use of ether plasticizers to do so. The oxygen in these compounds is expected to enhance their burning out of the fired product is why the examiner suspects that so many of the examples of Wang's plasticizers are ethers. The applicant's arguments regarding Wang's ether solvents is not persuasive in that it ignores the "Plasticizer" section of Wang, page 6, lines 45-58 which includes peg methyl ether, and ppg. However, it is the generic plasticizer teaching that is relied on for basis to combine the teachings of Beck and Hirai. Ethyl cellulose of new claim 15 is disclosed at page 5, line 43 of Wang. The applicant's arguments do not overcome this obviousness rejection for the reasons stated above and it is therefore maintained.

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick D. Niland whose telephone number is 571-272-1121. The examiner can normally be reached on Monday to Thursday from 10 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan, can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patrick D. Niland Primary Examiner Art Unit 1714